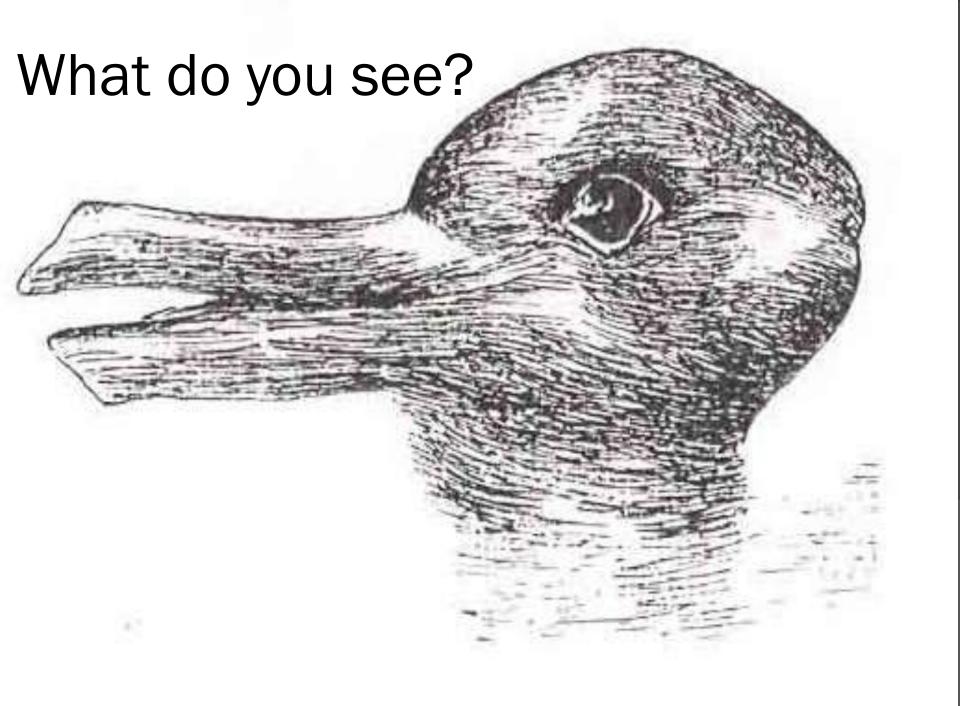
Paradigm shift from project-based to product based Requirements Management



Where do the requirements belong? **Product? Project?**

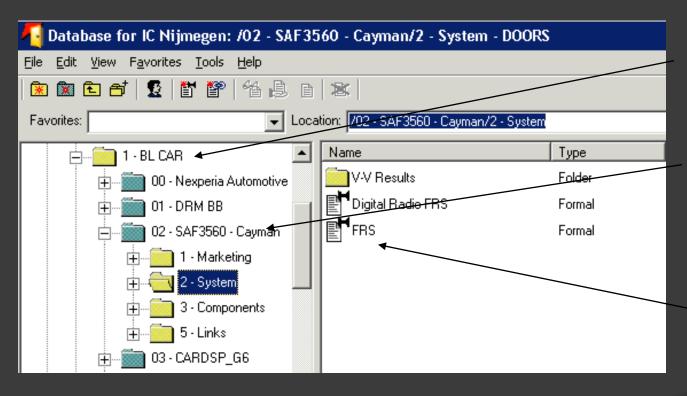
Requirements management

- Project-based
- Product-based

Project-based requirements

- Development project == DOORS project.
- Product and its components are only visible through a development project.
- The traceability information is also set up within the scope of a development project.

Representation in DOORS



Development projects in a Business Line

project delivers an IC

Product specifications of an IC on the system level.

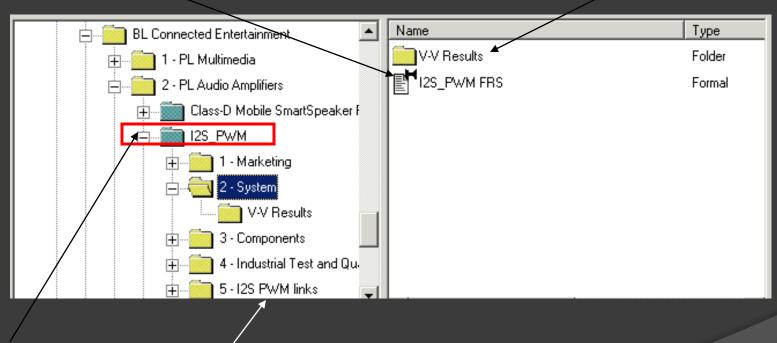
DOORS implementation

- Requirements for a product gathered in the context of a project.
- Each product or product component has a dedicated folder.
- Links are stored in link modules within project scope):
- Every product/product component requirements module describes the product from the black box perspective.

DOORS implementation

(1) Requirements module

(2/3) Test Specification & Test Results



Development Project

Link modules

Project-based requirements

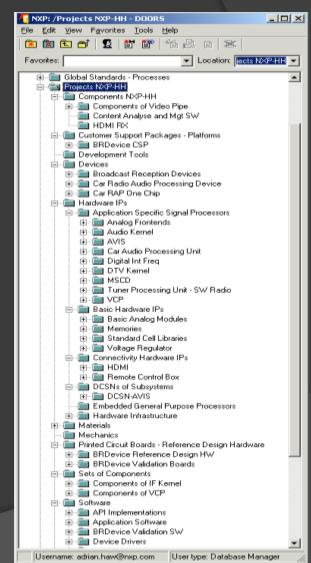
- Advantages
 - Simple to understand,
 - Easy to implement in DOORS,
 - > Good overview and structure for the project.
- Disadvantages
 - Product visibility is poor,
 - Reuse is difficult if not impossible.

Product-based requirements

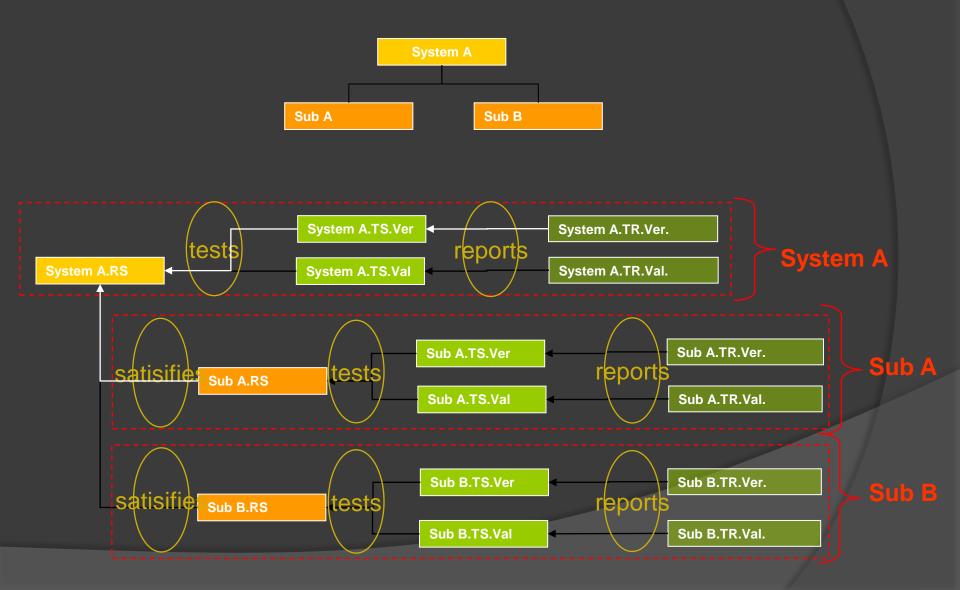
 The requirements are grouped per product/ product component instead of per project

Product-based requirements

- Product/ Product component == DOORS project.
- Development projects are not visible in DOORS.
- The traceability information between a product and its components is clearly defined within a product.



DOORS implementation



Product-based requirements

- Advantages
 - Makes the reuse of requirements easy,
 - > Faster requirements development.
- Disadvantages
 - Requires certain maturity in requirements writing,
 - Can be percived as difficult.

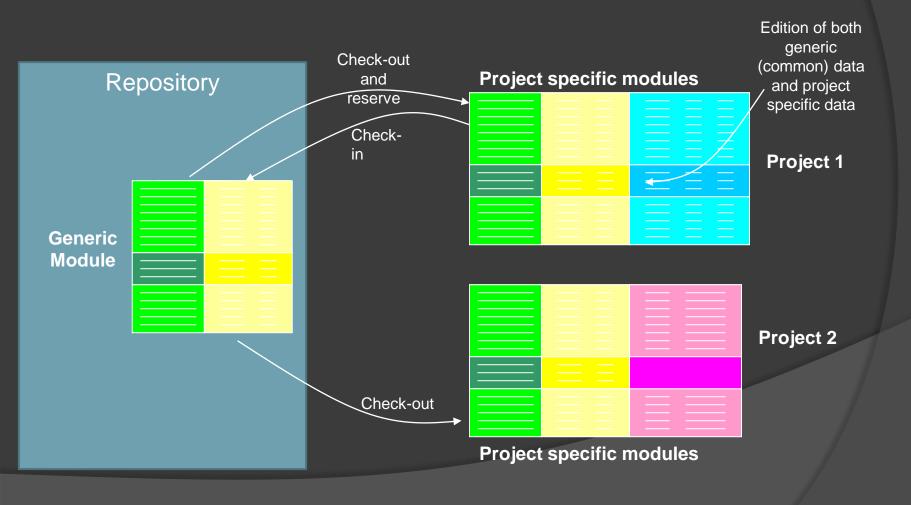


Repositories

Combination of product-based and project-based requirements.

- Develop requirements product-based,
- Use requirements project-based.

Repository - principles



Repository-based requirements

Advantages

- Combines the simplicity of project-based requirements with product-based basis,
- > Facilitates reuse,
- Allows faster requirements development,
- Off-the-shelf soultions available

Disadvantages

- Clear responsibilities over content of the repositories is necessary,
- Requires heavy DXL scripting if an off-the-shelf solution not used.

Conclusions

- There are different ways to work with requirements.
- Organizations have to evaluate their way of working and choose the requirements approach which fits their needs.
- Transition from the project-based to repository-based or product-based way of working is possible.

Thank you Questions?